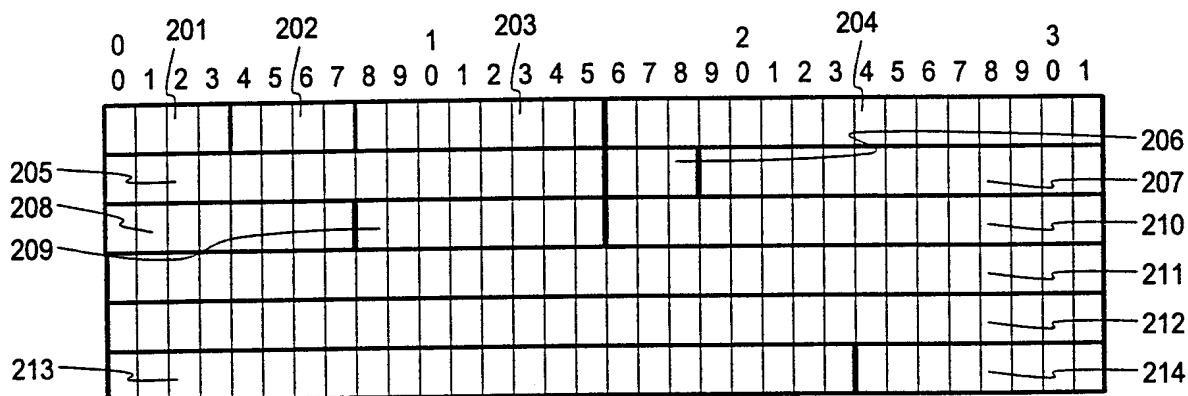




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/FI98/01032 (22) International Filing Date: 30 December 1998 (30.12.98) (30) Priority Data: 974665 31 December 1997 (31.12.97) FI (71) Applicant (for all designated States except US): SSH COMMUNICATIONS SECURITY OY [FI/FI]; Tekniikantie 12, FIN-02150 Espoo (FI). (72) Inventor; and (75) Inventor/Applicant (for US only): YLÖNEN, Tatu [FI/FI]; Täysikuu 10 C 88, FIN-02210 Espoo (FI). (74) Agent: BERGGREN OY AB; P.O. Box 16, FIN-0010 Helsinki (FI).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>  (88) Date of publication of the international search report: 10 September 1999 (10.09.99)	

(54) Title: A METHOD FOR PACKET AUTHENTICATION IN THE PRESENCE OF NETWORK ADDRESS TRANSLATIONS AND PROTOCOL CONVERSIONS



## (57) Abstract

For achieving packet authentication according to an applicable security policy between a sending node (903) and a receiving node (902) in a network, the following steps are taken: the transformations occurring to a packet en route between the sending node and the receiving node are discovered dynamically (1003, 1004), the discovered transformations are checked (1004) to be acceptable based on the applicable security policy, and the dynamically discovered, acceptable transformations are compensated for (1004, 1006) before authenticating packets transmitted from the sending node to the receiving node

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/01032

## A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04L 29/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5633931 A (JIMMY J. WRIGHT), 27 May 1997 (27.05.97), column 2, line 17 - line 67 --	1-22
A	WO 9410778 A1 (NOVEL, INC), 11 May 1994 (11.05.94), page 6, line 3 - line 21 --	1-22
P,A	US 5793763 A (JOHN C. MAYES ET AL), 11 August 1998 (11.08.98), column 2, line 15 - line 29 --	1-22
P,A	EP 0825745 A2 (NEC CORPORATION), 25 February 1998 (25.02.98), column 3, line 13 - column 4, line 17 -- -----	1-22

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Information on patent family members

01/06/99

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